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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/702,208

11/04/2003

Kyung Sook Lee

2060-3-61

7113

35884

7590

04/28/2008

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EXAMINER

BALAOING, ARIEL A

ART UNIT

PAPER NUMBER

2617

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DELIVERY MODE

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/702,208	<b>Applicant(s)</b> LEE, KYUNG SOOK	
	<b>Examiner</b> ARIEL BALAOING	<b>Art Unit</b> 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 04 April 2008.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 13,17,18,21,25,26,31,35,36,41,44 and 45 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 13,17,18,21,25,26,31,35,36,41,44 and 45 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 November 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/04/2008 has been entered.

### ***Response to Arguments***

2. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 103***

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

4. Claims 13, 17, 18, 21, 25, 26, 31, 35, 36, 41, 44, 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over LEE et al (US 2002/0051442 A1) in view of CHANDER et al (US 5,909,651).

Regarding claim 13, LEE discloses a system for communicating information (abstract; Figure 1, 2) comprising: a mobile communication network for transmitting first and second information [**broadcast page**] over a paging channel for a present paging period in a communication cycle (Figure 1) having a plurality of time slots (paragraph 6, 12-15; broadcast page message is used to *inform a mobile station that broadcast*

*message is transmitted to which location of a slot, see paragraph 6, and 13), wherein the first information informs arrival of a broadcasting message and the second information indicates position of a specified slot in said plurality of time slots and for transmitting a data burst message **S11, S21** through the specified slot (paragraph 6, 12-15); and a mobile communication terminal [**mobile station**] for searching for the first and second information during the preset paging period with respect to the paging channel and determining a slot based on the first and second information, and receiving a data burst message including the broadcast message carried on the determined slot (paragraph 6, 12-15; mobile station determines whether to receive broadcast message using information provided by broadcast page; see paragraph 15. Also, see Figure 1 with regards to the broadcast page received in slot 0 to determine location of broadcast message). However, LEE does not expressly disclose wherein the broadcast message is a broadcast short message. In the same field of the endeavor, CHANDER discloses wherein a broadcast message is a broadcast short message [**SMS message**] (abstract; col. 2, line 1-65). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify LEE to include a text broadcast message, such as an short message, as taught by CHANDER, since broadcasting short messages over a paging channel is well known and established in the art of wireless communication.*

Regarding claim 17, see the rejections of the parent claim regarding the subject matter this claim is dependent upon. The combination of LEE and CHANDER further

disclose wherein the broadcasting short message comprises text (CHANDER - abstract; col. 2, line 1-65; SMS message).

Regarding claim 18, see the rejections of the parent claim regarding the subject matter this claim is dependent upon. The combination of LEE and CHANDER further disclose wherein the broadcasting short message comprises a short message (CHANDER - abstract; col. 2, line 1-65; SMS message).

Regarding claim 21, LEE discloses a method for transmitting information from a mobile communication network (abstract; Figure 1, 2), the method comprising: transmitting first and second information in a general page message over a paging channel for a preset paging period in a communication cycle having a plurality of time slots, wherein the first information informs arrival of the broadcasting message and the second information indicates position of a specified slot of the paging channel in said plurality of time slots (paragraph 6, 12-15; broadcast page message is used to *inform a mobile station that broadcast message is transmitted to which location of a slot*, see paragraph 6, and 13); and transmitting a data burst message through the specified slot in the communication cycle, wherein the data burst message includes the broadcasting message (paragraph 6, 12-15; mobile station determines whether to receive broadcast message using information provided by broadcast page; see paragraph 15. Also, see Figure 1 with regards to the broadcast page received in slot 0 to determine location of broadcast message). However, LEE does not expressly disclose wherein the broadcast message is a broadcast short message. In the same field of the endeavor, CHANDER discloses wherein a broadcast message is a broadcast short message [**SMS message**]

(abstract; col. 2, line 1-65). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify LEE to include a text broadcast message, such as an short message, as taught by CHANDER, since broadcasting short messages over a paging channel is well known and established in the art of wireless communication.

Regarding claim 25, see the rejections of the parent claim regarding the subject matter this claim is dependent upon. The combination of LEE and CHANDER further disclose wherein the message comprises text (CHANDER - abstract; col. 2, line 1-65; SMS message).

Regarding claim 26, see the rejections of the parent claim regarding the subject matter this claim is dependent upon. The combination of LEE and CHANDER further disclose wherein the broadcasting short message comprises a short message (CHANDER - abstract; col. 2, line 1-65; SMS message).

Regarding claim 31, LEE discloses a method for receiving a broadcasting message in a mobile communication network (abstract; Figure 1, 2), the method comprising: receiving the general page message over a paging channel in accordance with a preset paging period (paragraph 6, 12-15); determining whether first and second information are included in the received general page message (paragraph 6, 12-15; broadcast page message is used to *inform a mobile station that broadcast message is transmitted to which location of a slot*, see paragraph 6, and 13); recognizing the arrival of a broadcasting short message based on the first information and recognizing the position of a specified slot based on the second information (paragraph 6, 12-15); and

receiving a data burst message carried on the recognized slot, wherein the data burst message includes the broadcasting message (paragraph 6, 12-15; mobile station determines whether to receive broadcast message using information provided by broadcast page; see paragraph 15. Also, see Figure 1 with regards to the broadcast page received in slot 0 to determine location of broadcast message). However, LEE does not expressly disclose wherein the broadcast message is a broadcast short message. In the same field of the endeavor, CHANDER discloses wherein a broadcast message is a broadcast short message [**SMS message**] (abstract; col. 2, line 1-65). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify LEE to include a text broadcast message, such as an short message, as taught by CHANDER, since broadcasting short messages over a paging channel is well known and established in the art of wireless communication.

Regarding claim 35, see the rejections of the parent claim regarding the subject matter this claim is dependent upon. The combination of LEE and CHANDER further disclose wherein the message comprises text (CHANDER - abstract; col. 2, line 1-65; SMS message).

Regarding claim 36, see the rejections of the parent claim regarding the subject matter this claim is dependent upon. The combination of LEE and CHANDER further disclose wherein the broadcasting short message comprises a short message (CHANDER - abstract; col. 2, line 1-65; SMS message).

Regarding claim 41, LEE discloses an apparatus for receiving a broadcasting message in a mobile communication network (abstract; Figure 1 and 2) comprising: a

search mechanism for searching a general page message including first and second information for a preset paging period in a communication cycle having a plurality of time slots, wherein the first information informs arrival of the broadcasting message and the second information indicates the position of a specified slot of the paging channel in said plurality of time slots (paragraph 6, 12-15; broadcast page message is used to *inform a mobile station that broadcast message is transmitted to which location of a slot*, see paragraph 6, and 13); and a retrieving mechanism for retrieving the broadcasting message from the specified slot based on the second information, wherein the general page message transmitted over a single paging channel, such that the apparatus searches for the first information and the second information in a single communication cycle (paragraph 6, 12-15; mobile station determines whether to receive broadcast message using information provided by broadcast page; see paragraph 15. Also, see Figure 1 with regards to the broadcast page received in slot 0 to determine location of broadcast message). However, LEE does not expressly disclose wherein the broadcast message is a broadcast short message. In the same field of the endeavor, CHANDER discloses wherein a broadcast message is a broadcast short message [**SMS message**] (abstract; col. 2, line 1-65). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify LEE to include a text broadcast message, such as a short message, as taught by CHANDER, since broadcasting short messages over a paging channel is well known and established in the art of wireless communication.

Regarding claim 45, see the rejections of the parent claim regarding the subject matter this claim is dependent upon. The combination of LEE and CHANDER further disclose wherein the broadcasting message comprises text (CHANDER - abstract; col. 2, line 1-65; SMS message).

Regarding claim 46, see the rejections of the parent claim regarding the subject matter this claim is dependent upon. The combination of LEE and CHANDER further disclose wherein the broadcasting short message comprises a short message (CHANDER - abstract; col. 2, line 1-65; SMS message).

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ARIEL BALAOING whose telephone number is (571)272-7317. The examiner can normally be reached on Monday-Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on (571) 272-7872. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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